

What is claimed is:

1. A bearing manufacturing method for a compressor comprising the steps of:

5 molding an exterior of a bearing by using an aluminum (Al) material;
forming an oxide-coated layer on the surface of the bearing member after
the exterior of the bearing is completed; and
electrolizing the bearing in tiomolybdenic acid ammonium solution and
infiltrating a molybedene emulsion into the oxide-coated layer of the bearing.

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2. The method of claim 1, wherein, in the second step of forming the
oxide-coated film, electrolyte solution such as sulfuric acid (H_2SO_4) and oxalic acid
is set as a cathode and a material to be coated is set as an anode, to which
electric current is provided to generate an oxide-coated layer on the surface of the
15 material.

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3. The method of claim 1, wherein, in the third step, the bearing with
the oxide-coated film formed is electrolized in 0.01~0.1 wt% pure tiomolybdenic
ammonium aqueous solution and hydrogen ion discharged from a barrier layer of
20 the oxide-coated layer and molybdenesulfide ion dissociated from the
tiomolybdenic acid ammonium aqueous solution are interacted in each fine pores,
so that molybedene emulsion can be deposited in the pores.

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4. The method of claim 1, wherein, in the third step, the oxide-coated
25 film has the thickness of 0.01~0.03mm.

5. The method of claim 1, further comprising a step of abrading a bearing contact face to improve the illumination of the surface of the bearing after infiltrating the molybedene emulsion.

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